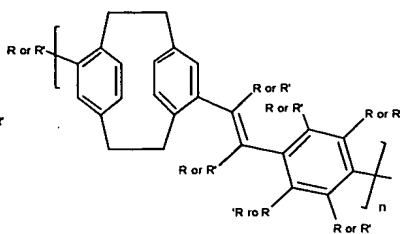
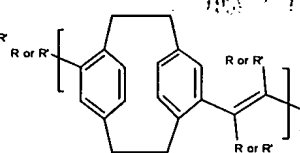


LXIV



LXV



LXVI

wherein R is hydrogen; R' is selected from the group consisting of alkoxy, alkyl, aryl, aryloxy, cyano, halide and amido; n is an integer from 1 to 100; X and Y are independently selected from the group consisting of C-R', CR, NR and NR'; Z is selected from the group consisting of OR, OR', SR, SR' NR, NR', CRR', -CH=CH-R, -CH=CH-R', and CN; and M in formula XXI is selected from the group consisting of sulfur, selenium and tellurium.

REMARKS

Applicants respectfully request the Patent Office to enter the foregoing amendment to the claims. The amendment adds omitted page 55, attached hereto as a substitute sheet. Support for the amendment to claim 10 can be found on pages 10-11 of the specification. Accordingly, the amendment does not introduce new matter.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned "Version with markings to show changes made."

Should there be any questions, the Examiner is encouraged to telephone the undersigned.

Dated: August 9, 2001

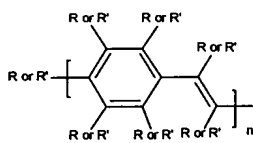
Margaret Churchill

Margaret Churchill, Ph.D.
Registration No. 39,944

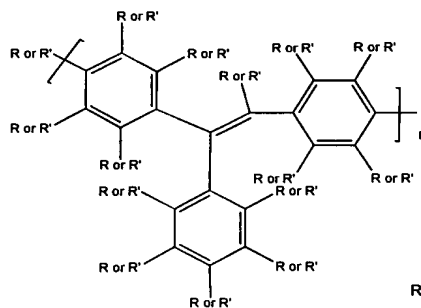
213/892-9206

VERSION WITH MARKINGS TO SHOW CHANGES MADE

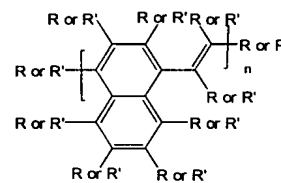
10. (Amended) The tetrahedral compound of claim 1 wherein R₁, R₂, R₃, and R₄ are each independently optoelectronic arms corresponding to formula (II) through formula (LXVIII):



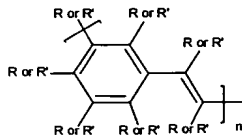
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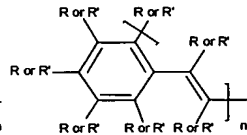
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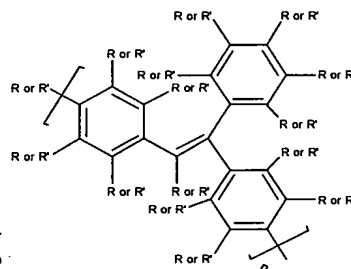
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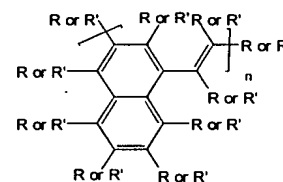
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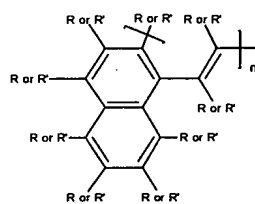
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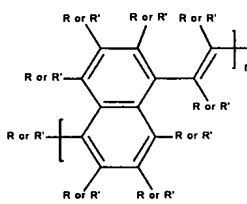
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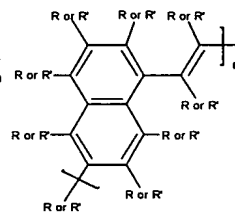
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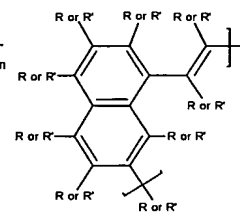
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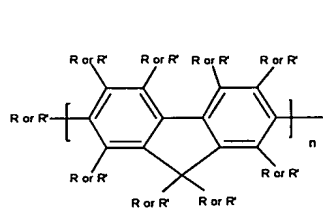
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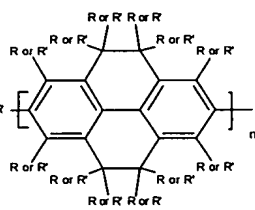
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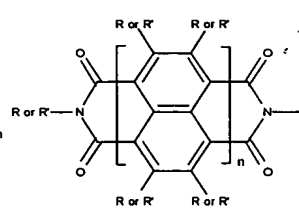
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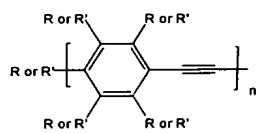
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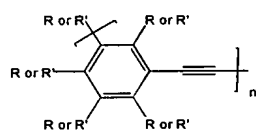
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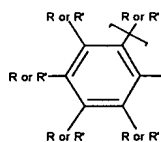
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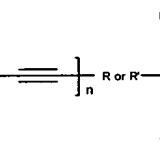
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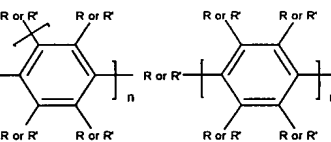
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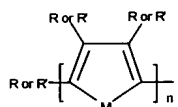
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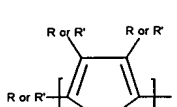
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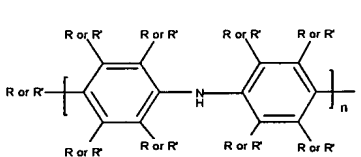
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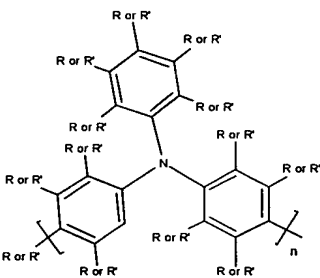
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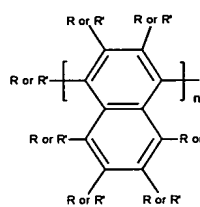
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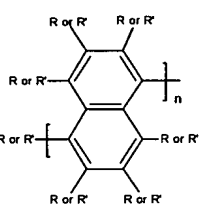
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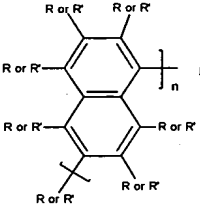
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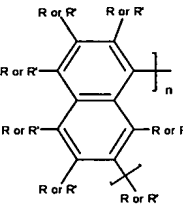
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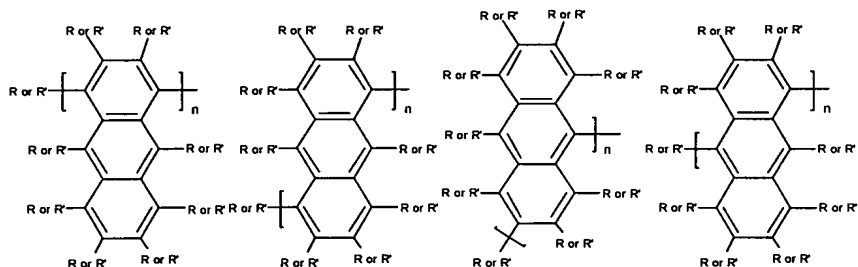
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XXVII



XXVIII

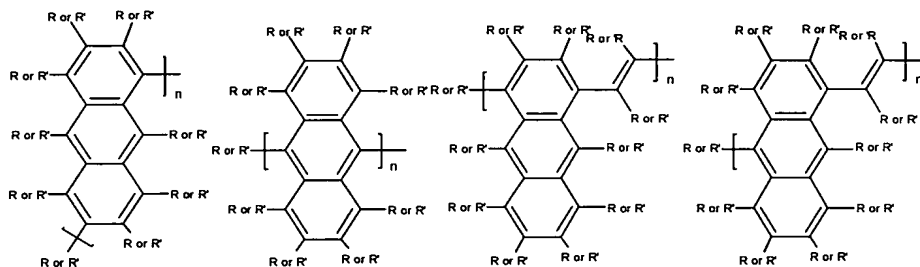


XXIX

XXX

XXXI

XXII

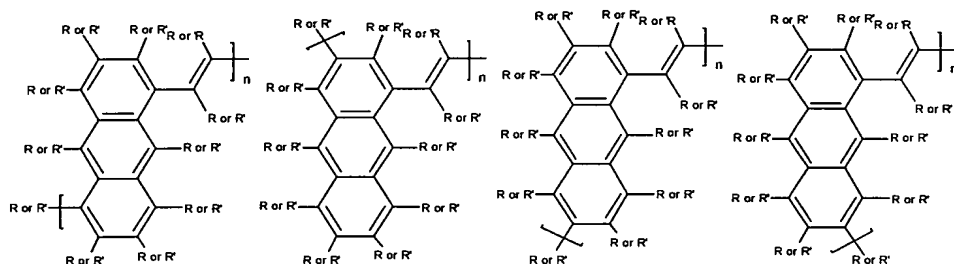


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XXXIV

XXXV

XXXVI

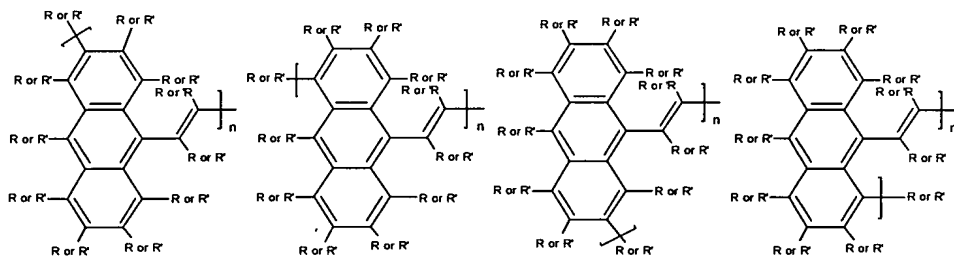


XXXVII

XXXVIII

XXXIX

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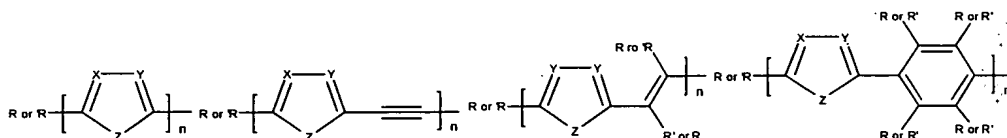


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XLII

XLIII

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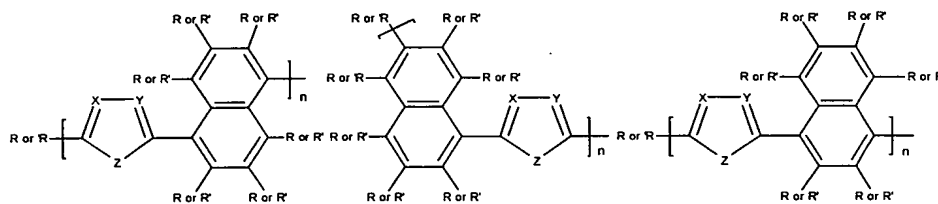


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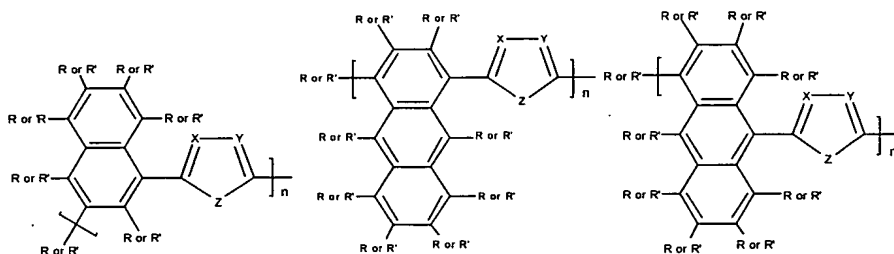
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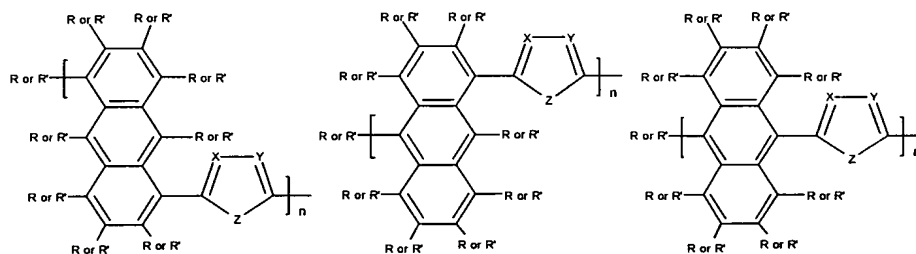
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LII

LIII

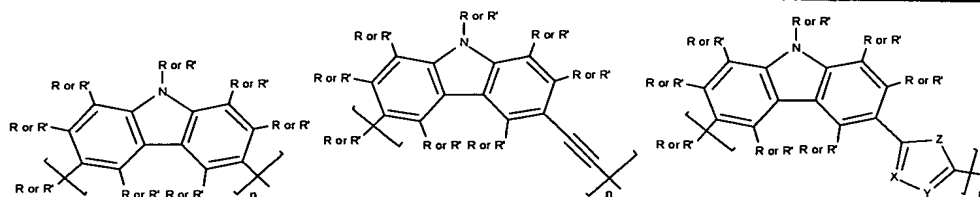
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LVI

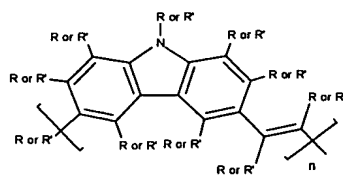
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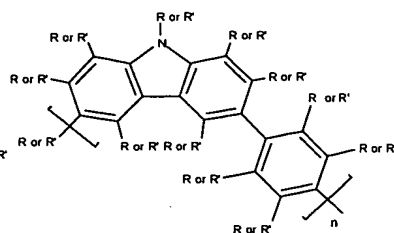
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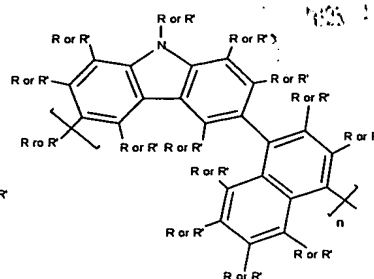
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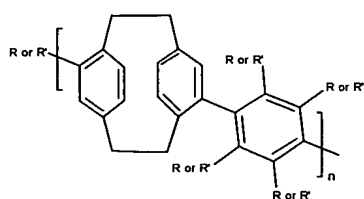
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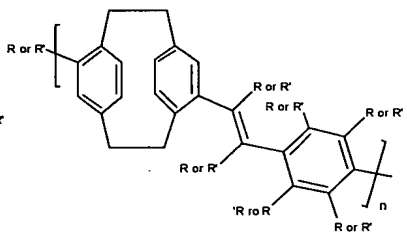
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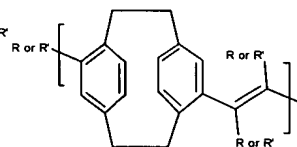
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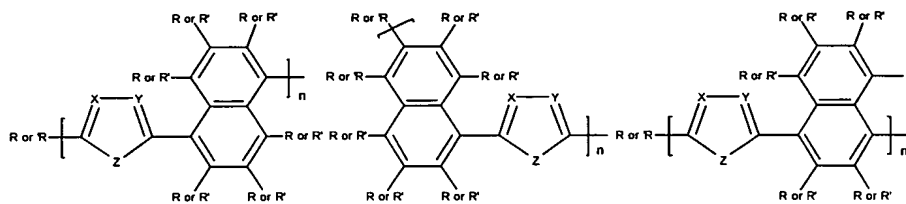


LXV



LXVI

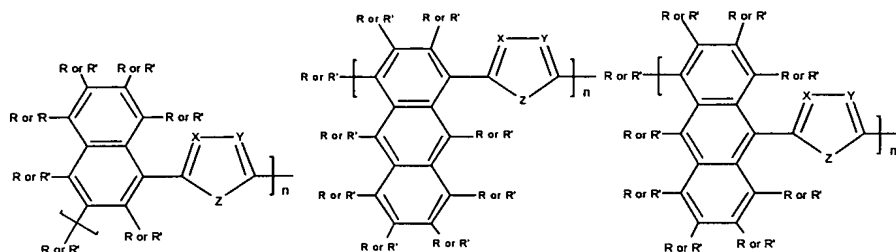
wherein R is hydrogen; R' is selected from the group consisting of alkoxy, alkyl, aryl, aryloxy, cyano, halide and amido; n is an integer from 1 to 100; X and Y are independently selected from the group consisting of C-R', CR, NR and NR'; Z is selected from the group consisting of OR, OR', SR, SR' NR, NR', CRR', -CH=CH-R, -CH=CH-R', and CN; and M in formula XXI is selected from the group consisting of sulfur, selenium and tellurium.



XLIX

L

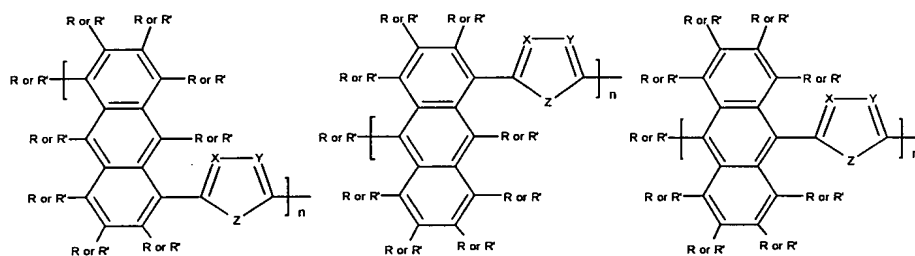
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LII

LIII

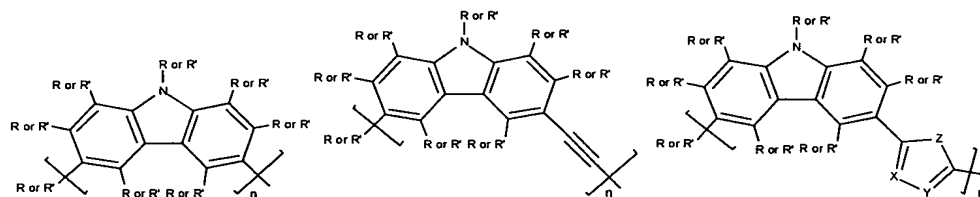
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LV

LVI

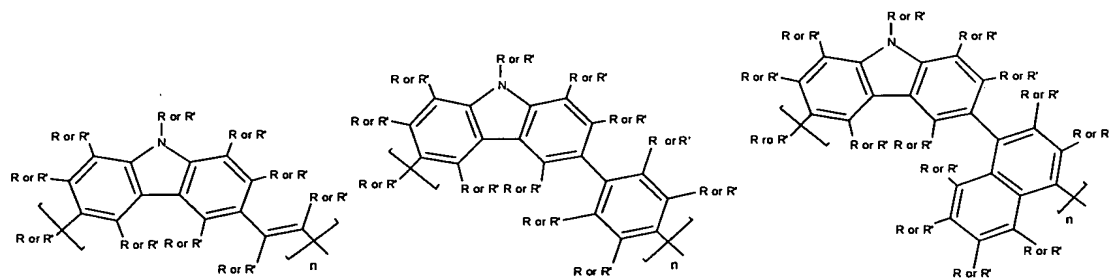
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LVIII

LIX

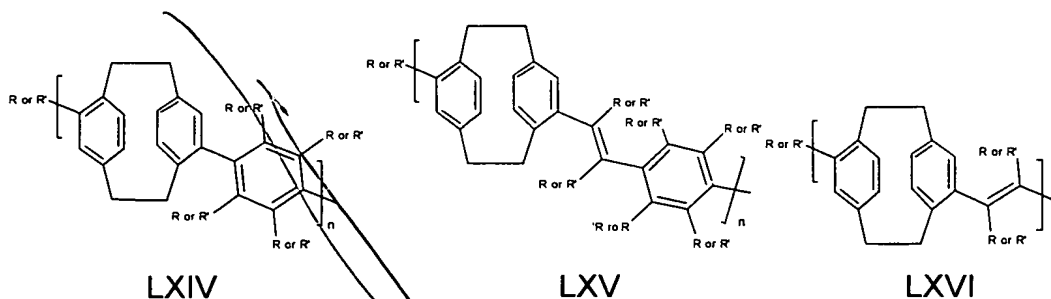
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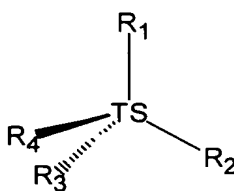
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LXIII



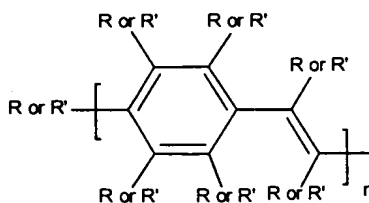
wherein R is hydrogen; R' is selected from the group consisting of alkoxy, alkyl, aryl, aryloxy, cyano, halide and amido; n is an integer from 1 to 100; X and Y are independently selected from the group consisting of C-R', CR, NR and NR'; Z is selected from the group consisting of OR, OR', SR, SR', NR, NR', CRR', -CH=CH-R, -CH=CH-R', and CN; and M in formula XXI is selected from the group consisting of sulfur, selenium and tellurium.

11. A tetrahedral compound having formula (I),



(I)

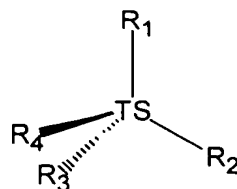
wherein TS is a tetrahedral junction unit selected from the group consisting of tetraphenylmethane, tetraphenylsilane, an sp^3 hybridized silicon atom, tetraphenyladamantane, adamantane and cubane; R1, R2, R3 and R4 are each optoelectronic arms corresponding to general formula II:



II

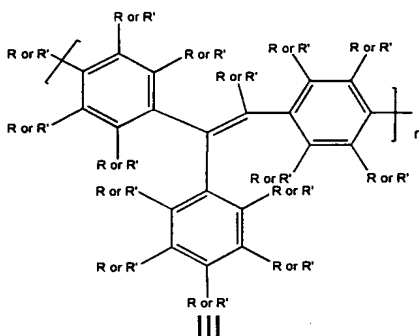
wherein R is hydrogen; R' is alkoxy, alkyl, aryl, aryloxy, cyano, halide, or amino; and n is an integer from 2 to 100.

12. A tetrahedral compound having formula (I),



(I)

wherein TS is a tetrahedral junction unit selected from the group consisting of tetraphenylmethane, tetraphenylsilane, an sp^3 hybridized carbon or silicon atom, tetraphenyladamantane, adamantane and cubane; R1, R2, R3 and R4 are each optoelectronic arms corresponding to general formula III:



wherein R is hydrogen; R' is alkoxy alkyl, aryl, aryloxy, cyano, halide or amino; and n is an integer from 1 to 100.

13. A composition comprising a tetrahedral compound according to claim 1.
14. A composition according to claim 13 further comprising an electron or hole transport agent.
15. A method of making the tetrahedral compound of claim 1 having one or more optoelectronic chromophore arms attached to a tetrahedral junction site, the method comprising the steps of: